

# Global Thin-Section Ball Bearings for Industrial Robots Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Thin-Section Ball Bearings for Industrial Robots market size was valued at US\$ 557 million in 2025 and is forecast to a readjusted size of US\$ 770 million by 2032 with a CAGR of 4.7% during review period.

In 2025, global Thin-Section Ball Bearings for Industrial Robots production reached approximately 93.87 M Units, with an average global market price of around 5.77 USD per Unit.

Thin-section ball bearings for industrial robots are compact rolling bearings (typically deep-groove, angular contact, or four-point contact) designed with a very small, standardized cross-section so robot joints can achieve smooth, accurate rotation while keeping the arm light, slim, and low inertia. In practice, they're widely used in robot axes such as waists, wrists, elbows, and other compact rotary joints, where space is tight and consistent motion quality matters.

Thin-Section Ball Bearings for Industrial Robots industry chain starts upstream with high-purity bearing steels (and, for corrosion-resistant or specialty variants, stainless steels, alloy steels, or hybrid ceramic rolling elements), along with cage materials (engineering polymers, brass, or stainless), lubricants/greases, seals/shields, and process consumables such as grinding wheels, coolants, and heat-treat gases. Midstream manufacturing is dominated by precision processes?ring forging or bar turning, spheroidizing/heat treatment and hardening, precision grinding and superfinishing of raceways, ball/roller manufacturing and grading, cage forming or molding, cleaning, assembly in controlled environments, lubrication and sealing, and stringent metrology

for runout, torque, noise, and life testing.

The single-line capacity of Thin-Section Ball Bearings for Industrial Robots varies greatly depending on the product type, precision level, and automation level, and the gross profit margin is usually in the range of 20-30%.

Thin-Section Ball Bearings for Industrial Robots are precision core components specifically designed for the core moving parts of industrial robots, such as joints, turntables, and end effectors. They combine the compact and lightweight advantages of thin-walled structures with the high rigidity and precision characteristics of industrial-grade components. Primarily represented by crossed roller bearings and four-point contact ball bearings, they can precisely adapt to the complex working conditions of high-speed robot operation and frequent start-stop cycles, providing crucial foundational support for ensuring precise and controllable robot motion trajectories and stable torque transmission.

Thin-Section Ball Bearings for Industrial Robots, with their extremely compact structural design and superior high rigidity and precision performance, precisely address the core pain points in the current development of the industrial robot industry. Its ultra-thin radial cross-section and lightweight characteristics effectively free up internal space in robot joints, perfectly solving the problem of traditional bearings' size and weight restricting robot miniaturization and lightweight design. It can even replace multiple sets of conventional bearings with a single bearing, simplifying the overall structure. Its core advantages of high rigidity and high precision fill the gap in the stringent requirements of high-end industrial robots for repeatability and operational stability, avoiding vibration and deformation problems that occur with conventional bearings under high-speed, heavy loads, ensuring the reliability of continuous operation. Furthermore, its ability to withstand radial and axial composite loads and overturning moments simultaneously makes it more suitable for the complex stress environment of robot joints, changing the current situation where general-purpose bearings are difficult to match professional working conditions. Currently, the global manufacturing industry is accelerating its transformation towards intelligent manufacturing, the penetration rate of industrial robots continues to increase, and emerging categories such as collaborative robots and special-purpose robots are constantly emerging. This, coupled with the rigid demand for automated production from downstream industries such as new energy vehicles and electronics manufacturing, and the policy support and technological innovation promotion of domestic production of core basic components by various countries, constitutes the core driving force for the booming development of the Thin-Section Ball Bearings for Industrial Robots industry.

In the future, the market potential of Thin-Section Ball Bearings for Industrial Robots will be continuously released along with the ongoing upgrade of the robotics industry, becoming a key force supporting the development of advanced manufacturing. Technologically, the application of new materials and the iteration of precision machining processes will further improve the fatigue resistance and adaptability to extreme environments of the products. The integration of intelligent sensing technology is expected to enable real-time monitoring and lifespan prediction of bearing operation, expanding service boundaries. With the industrialization of emerging fields such as humanoid robots, new demands for miniaturized, highly dynamic response bearings will emerge, driving products towards higher precision and more complex functions. Thin-Section Ball Bearings for Industrial Robots are evolving from simple mechanical parts into an important component of the core competitiveness of the robotics industry. Their industry value will continue to stand out with the deepening of intelligent manufacturing, providing solid support for the construction of an advanced manufacturing ecosystem and demonstrating a long-term, stable development prospect.

This report is a detailed and comprehensive analysis for global Thin-Section Ball Bearings for Industrial Robots market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Thin-Section Ball Bearings for Industrial Robots market size and forecasts, in consumption value (\$ Million), sales quantity (M Units), and average selling prices (US\$/Unit), 2021-2032

Global Thin-Section Ball Bearings for Industrial Robots market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (M Units), and average selling prices (US\$/Unit), 2021-2032

Global Thin-Section Ball Bearings for Industrial Robots market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (M Units), and average selling prices (US\$/Unit), 2021-2032

Global Thin-Section Ball Bearings for Industrial Robots market shares of main players, shipments in revenue (\$ Million), sales quantity (M Units), and ASP (US\$/Unit), 2021-2026

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Thin-Section Ball Bearings for Industrial Robots

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Thin-Section Ball Bearings for Industrial Robots market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include SKF, NSK, Schaeffler Group, MinebeaMitsumi, Kitanihon Seiki, NTN, GRW Bearings, ZEN group, Pacamor Kubar, JTEKT, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

### **Market Segmentation**

Thin-Section Ball Bearings for Industrial Robots market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Angular Contact Bearings (Type A)

Deep Groove Radial Ball Bearings (Type C)

Four-Point Contact Radial Bearings (Type X)

Others

Market segment by Bore Diameter

50mm Below

50-100mm

100mm Above

Market segment by Width

10mm Below

10-20mm

20mm Above

Market segment by Application

Assembly Robots

Handling Robots

Welding Robots

Collaborative Robots

Others

Major players covered

SKF

NSK

Schaeffler Group

MinebeaMitsumi

Kitanihon Seiki

NTN

GRW Bearings

ZEN group

Pacamor Kubar

JTEKT

RBC Bearings

Rodriguez GmbH

Lily Bearings

Timken

Austin Engineering Company

THK

IKO (NIPPON THOMPSON)

Franke GmbH

Silverthin Bearing (Mechatronics)

SLF Fraureuth GmbH

Schatz Bearing Corp.

Slim Section Bearings (Ritbearing Corp)

Cixing Group

SWC Bearings

Luoyang LYC Bearing

Huigong Bearing Technology

Luoyang Bobi Precision

ISK Bearings

Luoyang Nice Bearing (LYNBC)

Jiang Xi blf Industrial

Wuxi Huayang Rolling Bearing

Handan Hongli Bearings

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Thin-Section Ball Bearings for Industrial Robots product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Thin-Section Ball Bearings for Industrial Robots, with price, sales quantity, revenue, and global market share of Thin-Section Ball Bearings for Industrial Robots from 2021 to 2026.

Chapter 3, the Thin-Section Ball Bearings for Industrial Robots competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Thin-Section Ball Bearings for Industrial Robots breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Thin-Section Ball Bearings for Industrial Robots market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Thin-Section Ball Bearings for Industrial Robots.

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